TABLE 1
TIER 1 SURFACE SOIL (0-2 ft) RBSLs (mg/kg)
(includes default RBSLs)

This table applies to contaminated surface soil from 0-2 feet below ground surface. **For VPH compounds at UST sites, default RBSLs (bold) are used to determine if a release has occurred at a site. Default RBSLs apply to the entire soil column and always apply in the absence of adequate information. For EPH compounds the 50 ppm screening level is used to determine whether a release has occurred at UST sites.** Distance to water is from the sample depth to the water table.

Distance to groundwater		**< 10 feet to groundwater**				**10-20 feet to groundwater**				**> 20 feet to groundwater**			
Chemical	**E**	**Residential**	**B**	**Commercial**	**B**	**Residential**	**B**	**Commercial**	**B**	**Residential**	**B**	**Commercial**	**B**
For Gasoline and Light Hydrocarbons measured using the Massachusetts Method for Volatile Petroleum Hydrocarbons (VPH)													
C5-C8 Aliphatics	n	**10**	dc	50	dc	10	dc	50	dc	10	dc	50	dc
C9-C12 Aliphatics	n	**70**	dc	300	dc	70	dc	300	dc	70	dc	300	dc
C9-C10 Aromatics	n	**8**	l	8	l	10	dc	30	l	10	dc	40	l
MTBE	n	**0.1**	l	0.1	l	0.2	l	0.2	l	0.3	l	0.3	l
Benzene	c	**0.05**	l	0.05	l	0.1	l	0.1	l	0.2	l	0.2	l
Toluene	n	**10**	l	10	l	40	l	40	l	60	l	60	l
Ethylbenzene	n	**10**	l	10	l	40	l	40	l	60	l	60	l
Xylenes	n	**20**	dc	80	dc	20	dc	80	dc	20	dc	80	dc
Naphthalene	n	**9**	l	9	l	30	l	30	l	50	l	50	l
For Diesel and Heavy Hydrocarbons measured using the Massachusetts Method for Extractable Petroleum Hydrocarbons (EPH)													
C9-C18 Aliphatics	n	100	dc	600	dc	100	dc	600	dc	100	dc	600	dc
C19-C36 Aliphatics	n	2,500	bu	5,000	bu	2,500	bu	5,000	bu	2,500	bu	5,000	bu
C11-C22 Aromatics	n	70	dc	100	l	70	dc	300	dc	70	dc	300	dc
Acenaphthene	n	200	l	200	l	500	l	500	l	600	dc	800	l
Anthracene	n	3,000	dc	4,000	l	3,000	dc	10,000	l	3,000	dc	20,000	l
Benz(a)anthracene	c	0.8	dc	6	dc	0.8	dc	6	dc	0.8	dc	6	dc
Benzo(a)pyrene	c	0.08*	dc	0.6	dc	0.08*	dc	0.6	dc	0.08*	dc	0.6	dc
Benzo(b)fluoranthene	c	0.8	dc	6	dc	0.8	dc	6	dc	0.8	dc	6	dc
Benzo(k)fluoranthene	c	8	dc	60	dc	8	dc	60	dc	8	dc	60	dc
Chrysene	c	80	dc	600	dc	80	dc	600	dc	80	dc	600	dc
Dibenzo(a,h)anthracene	c	0.08*	dc	0.6	dc	0.08*	dc	0.6	dc	0.08*	dc	0.6	dc
Fluoranthene	n	400	dc	1,000	l	400	dc	4,000	l	400	dc	5,000	l
Fluorene	n	200	l	200	l	400	dc	600	l	400	dc	900	l
Indeno(1,2,3-cd)pyrene	c	0.8	dc	6	dc	0.8	dc	6	dc	0.8	dc	6	dc
Naphthalene	n	9	l	9	l	30	l	30	l	50	l	50	l
Pyrene	n	300	dc	5,000	l	300	dc	6,000	dc	300	dc	6,000	dc

Notes:

E = Effect is either:
- n = non-carcinogenic and direct contact RBSLs are based on a hazard quotient of 0.125 for a total hazard index which does not exceed 1, or
- c = carcinogenic and direct contact RBSLs are based on a cancer risk of $1X10^{-6}$ for a total cancer risk which does not exceed $1X10^{-5}$.

B = Basis is the most conservative of:
- l = leaching from soil to groundwater;
- dc = residential direct contact including ingestion, inhalation, and dermal; or
- bu = adversely affects beneficial uses (foul odor or taste).

If the leaching pathway is not the most conservative basis, residential or commercial RBSLs apply to surface soil.

* = The best achievable practical quantitation limit (0.33) is greater than the RBSL; therefore, if the compound is detected, additional evaluation may be necessary.

DEQ's RBCA policy includes a ceiling concentration of 100 mg/kg for the total of the gasoline range fractions and 2,500 mg/kg for the total of the diesel range fractions in residential soil.

DEQ's RBCA policy includes a ceiling concentration of 500 mg/kg for the total of the gasoline range fractions and 5,000 mg/kg for the total of the diesel range fractions in commercial soil.